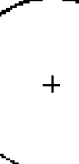
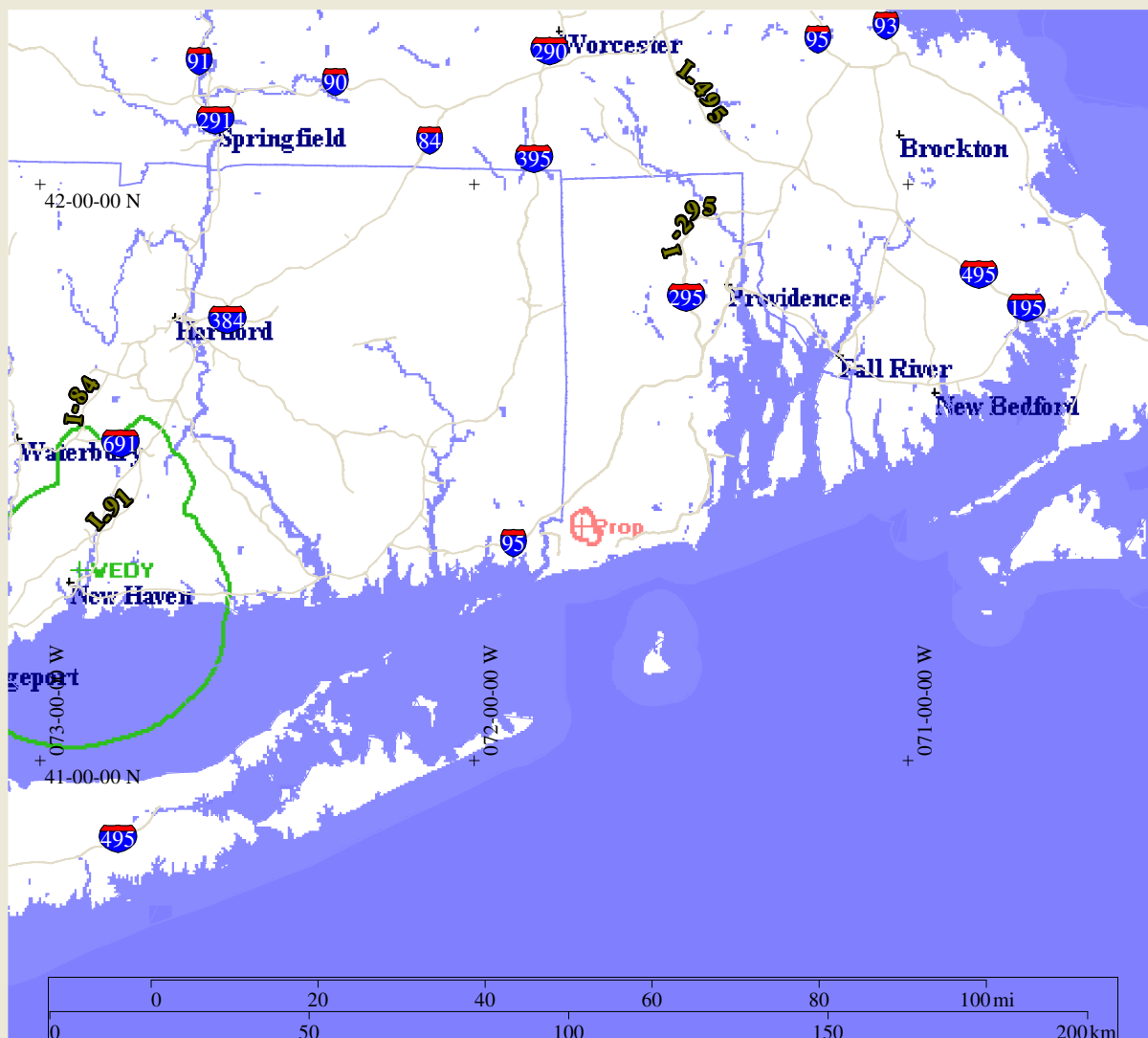


TV6 Calculation for Bradford, RI

TV6 Call sign		Fcc Search	
WEDY		15.3 dBu	
City		State	
New Haven		CT	
COR AMSL (m)		HAAT(m)	
132		88	
Latitude		Longitude	
411942		725425	
		TV ERP (kW)	
		0.400	
		FM Horizontal ERP	
		0.430	
<input checked="" type="checkbox"/> Outside City Of 50k <div style="float: right;"> <div style="background-color: green; color: white; padding: 2px 5px;">TV</div> <div style="background-color: red; color: white; padding: 2px 5px;">FM</div> </div>			
47	47	1	
Plot Scale			
250		<input checked="" type="checkbox"/> DLG <input type="checkbox"/> AJPI	
<input checked="" type="checkbox"/> Hide Zeros		<input checked="" type="checkbox"/> TIGER	
<input type="checkbox"/> Plot All Centroids			
<input checked="" type="checkbox"/> Plot Inside Centroid Counts			
<input type="checkbox"/> Plot All Centroid Counts			
<input checked="" type="checkbox"/> Plot Contours			
<input type="checkbox"/> Print All Centroids to		-3 dBu	
<input type="checkbox"/> Print Centroids			
<input checked="" type="checkbox"/> Print TV Contour Table			
Comp	Copy F	PrintText	Print Form



Channel Six TV Protection Study

WEDY	06	0.400kW ERP	132.0M COR AMSL	88.0M HAAT	Lat. 411942	Lon. 725425
Prop	216	0.430kW ERP	60.0M COR AMSL	28.8M HAAT	Lat. 412425	Lon. 714505

```
Distance from TV to FM 97.0767km    Azi 264.8degr    Rev Azi 84.8 degr
Cutoff radius for channel 216 is 177 km
```

The FM horizontal polarization component is 0.430 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.4408kW

The TV6 signal strength at the FM transmit site is 15.266 dBu
For F centroids (centroids where the TV6 signal strength is less than 68 dBu and
which are also +/-70 degrees from line from the FM station to the TV station)
a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional	Total
47	28.1	75.0		81.0

Population in affected area	0
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2000 Block Centroids used